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FORM PTO-1390 U.S. DI (REV 10-94)	EPARTMENT OF COMMERCE PATENT AND TRADEMARK OF	FICE ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER	TO THE UNITED STATES	30966.13USWO
	ED OFFICE (DO/EO/US)	
CONCERNING A FILIN	IG UNDER 35 U.S.C. 371	U S APPLICATION NO (If known, see 37 C F R. 15)
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	
PCT/IT97/00130		PRIORITY DATE CLAIMED
	10 June 1997	19 July 1996 0 9/214971
TITLE OF INVENTION METHOD FOR PRODUCING A COMPOSIT	E MATERIAL AND MATERIAL OBTAIN	ED BY MEANS OF SAID METHOD
APPLICANT(S) FOR DO/EO/US VALENTE, Gabriele et al.		
Applicant herewith submits to the United States D	esignated/Elected Office (DO/EO/US) the follow	wing items and other information:
3. [X] This express request to begin national ex examination until the expiration of the approximation of the approximation and the expiration of the expiration o	ncerning a filing under 35 U.S.C. 371. submission of items concerning a filing under 3 ramination procedures (35 U.S.C. 371(f)) at any oplicable time limit set in 35 U.S.C. 371(b) and minary Examination was made by the 19th more	time rather than delay PCT Articles 22 and 39(1).
b. [X] has been transmitted by the Interception of the International Application of the Internation of the International Application of the Internation of the Interna	ed only if not transmitted by the International Buernational Bureau. On was filed in the United States Receiving Offication into English (35 U.S.C. 371(c)(2)). Itional Application under PCT Article 19 (35 U. red only if not transmitted by the International Eternational Bureau. The time limit for making such amendments has	ce (RO/US) S.C. 371(c)(3)) Bureau).
8. [] A translation of the amendments to the c		3)).
9. An oath or declaration of the inventor(s)	(35 U.S.C. 371 (c)(4)).	
translation of the annexes to the Internation (35 U.S.C. 371(c)(5)).	onal Preliminary Examination Report under PC	Γ Article 36
Items 11. to 16. below concern document(s) or i 11. [] An Information Disclosure Statement un		
12. [] An assignment document for recording.	A separate cover sheet in compliance with 37 C	FR 3.28 and 3.31 is included.
[X] A FIRST preliminary amendment.[] A SECOND of SUBSEQUENT preliminary	nary amendment.	
14. [] A substitute specification.		FEE WILLE CCOUNTAGELITY
15. [] A change of power of attorney and/or ad	dress letter.	OBIT ACCOUNT NO.
16. [] Other items or information:		3 2724 EE VALUE DE FUNNISHED

U.S. APPLICATION NO (If know	vn, see 37 C.F.R. 1.5)X	PCT/IT97/00130	NO.	RNEY'S DOCKET NUMBER	
17. x The following fees are submitted:				CALCULATIONS P	TO USE ONLY
BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)): Search Report has been prepared by the EPO or JPO\$910.00					
	ninary examination fee paid		\$660.00		
No international pre but international se	eliminary examination fee parch fee paid to USPTO (37	aid to USPTO (37 CFR 1.47 7 CFR 1.445(a)(2))	82) \$ 730.00		
Neither international international search	al preliminary examination f n fee (37 CFR 1.445(a)(2)) p	ee (37 CFR 1.482) nor paid to USPTO	\$1040.00		
International prelim and all claims satist	inary examination fee paid fied provisions of PCT Artic	to USPTO (37 CFR 1.482) cle 33(2)-(4)	\$92.00		
		RIATE BASIC FEE		\$1,040.00	
Surcharge of \$130.00 for months from the earliest	r furnishing the oath or decl claimed priority date (37 C	aration later than [] 20 []? FR 1.492(e)).	30	\$0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		<u> </u>
Total claims	5 -20=	0	X \$22.00	\$0	
Independent claims	2 -3 =	0	X \$78.00	\$0	
MULTIPLE DEPENDE	NT CLAIM(S) (if applicabl	e)	+ \$250.00	\$250.00	
	TOTAL	OF ABOVE CALCU	LATIONS =	\$	
Reduction by 1/2 for filin	ng by small entity, if applica	able. Verified Small Entity			
Statement must also be fi	iled (Note 37 CFR 1.9, 1.27	, 1.28).		-\$520.00	
		SU	JBTOTAL =	\$645.00	
Processing fee of \$130.0 months from the earliest	of for furnishing the English claimed priority date (37 Cl	translation later than [] 20 FR 1.492(f).	[]30 +	\$0	
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c. [X] The Commissio overpayment to	oner is hereby authorized to Deposit Account No. 13-27	charge any additional fees v 724. A duplicate copy of th	which may be requise sheet is enclose	uired, or credit any	
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SEND ALL CORRESPONDENCE	TO:			_Charles Berman	
Charles Berman MERCHANT, GOIULD, SMITH, EDELL, WELTER & SCHMIDT, P.A.				NAME	
11150 Santa Monica Boulevard, Suit				29,249 REGISTRATION NUM	/BER
Los Angeles, California 90025-3395					

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR

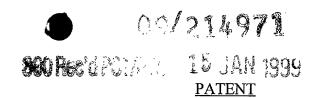
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INVENTOR	>		GABRIELE	LAMACCHI ALBERTO		_
	(NAME OF IN	NVENTOR	NAME OF INVENTOR	NAME OF INVENTOR	•
Sign	-	Signature of	Inventor	Signature of Inventor	Signature of Inventor	•
Date	>	12 JANU	ARY 1999	12 JANUARY 1999	9	
	-	Date		Date	Date	*

VARIALIZIONE

INDEPENDENT INVENTOR(S)

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR

Insert title of application	>	As a below named inventor, I her 37 CFR 1.9(c) for purposes of pa States Code, to the Patent a METHOD FOR PRODUCING	eby declare that I quality as an aying reduced fees under section of trademark Office with I A COMPOSITE MATERIAL.	independent inventor as defined in on 41(a) and (b) of Title 35, United regard to the invention entitled described in
Check one, NL in If b) or c)	>	a) the specification fi		
		to assign, grant, convey or license as an independent inventor unde	, any rights in the invention to any or 37 CFR 1.9(c) if that person as a small business concern u	no obligation under contract or law y person who could not be classified had made the invention, or to any inder 37 CFR 1.9(d) or a nonprofit
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co-owners	>	NAME		
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Insert each Inventor	>	VALENTE Gabriele		
		NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
Sign	>	Signature of Inventor	Signature of Inventor	Signature of Inventor
Date	>	12 JANUARY 1999		
	-	Dete	Deta	Date



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

VALENTE, Gabriele et al.

Examiner:

Serial No.:

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Group Art Unit:

200664270777

Filed:

January 15, 1999

Docket No.:

30966.13USWO

Title:

METHOD FOR PRODUCING A COMPOSITE MATERIAL AND

MATERIAL OBTAINED BY MEANS OF SAID METHOD

CERTIFICATE UNDER 37 CFR 1.10

'Express Mail' mailing label number: EM341183434US

Date of Deposit: January 15, 1999

I hereby certify that this correspondence is being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

By: Name: Jose Gonzales

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Cancel the abstract of International Application No. PCT/IT97/03333 (published under International Publication No. WO 98/03333) and replace it as follows:

—A supporting material in the form of sheet or roll, constituted by a cellulosic material, or a rolled section in paper treated with a solution, or a rolled section in melaminic paper, or a mixture of leather regenerated materials or derivatives thereof, or cardboard fiber, or needled fabrics, or synthetic or natural rubber, or foam made of reticulated polyethylene with closed cells, or natural or synthetic leather, or non—woven fabric, neoprene, masonite, recycled polyethylene, nylon, Lilion®, Tyvec®, polyester or a net made of synthetic material, or cork or wood, or a coagulated material, or felt, or foamed polyurethane, foamed polyethylene, foamed polystyrene, or a perspiring material, or an agglomerated stone—like material, is coupled to a covering layer

made of polyethylene or Surlyn®, whereby the upper surface of the covering layer is embossed, in such a way as to imitate another material. This composite material has a high surface resistance, thus being particularly suitable for a plurality of applications; furthermore, said composite material is non-toxic and thus usable for contacting the skin also for a long period of time.—

<u>REMARKS</u>

Kindly enter this preliminary amendment before proceeding with the examination for this application.

Respectfully submitted,

Dated: January 15, 1999

Charles Berman

Reg. No. 29,249

Merchant, Gould, Smith, Edell, Welter & Schmidt Westwood Gateway II, Suite 400 11150 Santa Monica Blvd. Los Angeles, CA 90025–3395

SEAR REC'T PCT/PTO 15 JAN 1999

Article 34

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"COMPOSITE MATERIAL AND USE THEREOF"

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TECHNICAL FIELD

The present invention relates to a composite material which is particularly suitable for being used in footwear manufacturing, specifically for cork soles and/or vamps and/or toes production, as well as for other applications such as spectacle-cases or the like, panellings, suitcases or leather-goods, or chairs or sofas components.

The invention is mainly applied in the fields of footwear industry or in the manufacturing of natural leather or hides, as well as in the manufacturing of furnishing elements.

BACKGROUND ART

Footwear cork soles are usually obtained from sheet or roll supporting materials, which are generally constituted by cellulosic material or rigenerated leather.

Said material represents the cork sole support, and a mixture of resins together with a suitable dyestuff is sprayed or spreaded on one side of said material in a suitable industrial plant.

Thereafter, if necessary, the treated surface of the supporting sheets undergoes an embossing operation; finally, said surface is then treated with a paint layer, usually a nitro paint.

30 Said manufacturing method, as well as the material obtained therewith, involve some disadvantages and drawbacks, among which a low surface resistance of the treated layer, and relatively high production costs can be

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principally mentioned.

Document GB-A-1,514,224 deals with multilayer composites which simulate leather and are used in all areas where real leather is generally used, such as upholstery, apparel, hanbags, luggage and footwear.

Said multilayer composites are constituted by three essential components: a) textile fabrics which act as supporting substrates; b) crushed foam; c) a surface finish film.

Document DE-A-3,220,768 deals with a process for coupling a TNT substrate to a PVC or PU or PE layer, said TNT substrate being drenched with a polyester resin.

Document DE-A-1,654,451 deals with a process for the production of artificial or simulated leather obtained by coupling a foamed polyurethane to a synthetic layer, e.g. PVC, PE, PP, PA, polyster.

Document GB-A-1,536,421 deals with flexible laminates comprising a first outer layer made of a thermoplastic material: a first backing layer for the first outer layer which is constituted by paper or thin carboard or woven and non-woven cloth; a second outer layer made of a polymeric material and the backing layer of said second outer layer which is, for example, cardboard, or woven or non-woven textile material.

Document FR-A-2,388,659 deals with the application of a coating made of synthetic resin to a PE foam.

DESCRIPTION OF THE INVENTION

The present invention aims to give a simple and economic solution to the above-mentioned problems and, thus, to provide for a composite material provided with a high surface resistance, thus being particularly suitable for a plurality of applications, such as footwear cork soles or toes, and also parts of suitcases, brief-cases, spectacle-

cases, chairs components or structures, etc., as well as for recycling and regenerating stocks of leather materials, said composite material being non-toxic and thus usable for contacting the skin also for a long period of time.

5 This is obtained by means of the features disclosed in the main claim.

The dependent claims outline particularly advantageous forms of embodiment of the composite material according to the invention.

10 Furthermore, claim 4 discloses the use of said composite material.

According to the present invention, the composite material is constituted by a suitable supporting material, available in sheets or rolls, to which a polyethylene or Surlyn® covering layer is applied, said covering layer being advantageously constituted by a thin film.

Said supporting material is constituted by a material selected from the group comprising:

- cellulosic material in sheets or rolls (for instance Bontex[®] or Texon[®]);
 - a mixture of leather regenerated materials or derivatives thereof (for instance Salpa);
 - natural leather even from stock;
 - cork or wood;
- 25 coagulated materials;
 - felt;
 - a perspiring material such as Goretex® or Simpatex®.

The coupling of the supporting material with the covering layer can be obtained with a cold-working, for instance interposing a suitable double adhesive film between the supporting material and the film made of polyethylene or Surlyn®, or by means of a sprayed or spread adhesive;

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alternatively, the coupling of the film can be obtained with a hot-working.

Furthermore, the composite material, which is obtained by coupling the polyethylene or Surlyn® covering layer with the supporting material, is embossed during the coupling operation.

The embossed composite material according to the present invention is non-toxic and presents extraordinary mechanical properties, for instance a very high surface resistance to abrasion or scraping.

Furthermore, according to a form of embodiment, a wool layer or a net is placed over the covering layer.

Besides, a dyestuff layer (physical or sublimatic) can be interposed between the supporting material and the transparent polyethylene or Surlyn® covering layer.

Following to the coupling operation, the resultant composite material may immediately be cut so as to obtain the desired shapes, for instance cork soles or other footwear elements (heels or toes), or wall-paper sheets, suitcase elements, furniture articles, etc.

In this context, it is useful to remark that the composite material according to the invention includes a polyethylene surface layer, which makes it non-toxic and it may freely be used in any applications which come into contact with the human skin, which operation is not possible, for instance, with known composite materials having surface layers made of polyvinylchloride PVC.

As mentioned above, the composite material according to the present invention has a very high surface resistance and can be used in many applications, above all in the footwear field.

In fact, tests demonstrated that this material is particularly suitable for manufacturing cork soles, which

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show higher mechanical resistance than those which are typical of the known cork soles, having a paint surface layer; other interesting applications are those concerning the manufacturing of heels or toes or vamps.

In this context it is appropriate to note that, in the case where the supporting material is a leather, the application of the polyethylene surface layer gives stability to the supporting material surface, thereby preventing the formation of ashlars, concavities, etc.

According to a further form of embodiment of the invention, the supporting material can be sprayed with a leather-like scent prior to embossing. In this case the resulting material cannot be distinguished from real leather any more.

Concerning the manufacturing of suitcases and/or briefcases and/or spectacle-cases or the like, as well as of other natural leather goods, other applications have demonstrated the absolute reliability of the material according to the invention.

20 Furthermore, the material according to the invention may advantageously be applied to the production of chairs or sofas elements or structures.

According to a particular form of embodiment of the material according to the invention, the material itself is provided with a series of perforations or microperforations, which are usually carried out on the sheet or roll before the final cutting according to a predeterminated shape or simultaneously to the embossing operation.

In this case the composite material has shown a particular effectiveness in being used as cork sole, since it allows a membrane made of unidirectional transparent material to be arranged between the cork sole and the sole of a footwear, thereby maintaining the foot always dry.

Moreover, the film provided with perforations can be coupled by means of hot-working with a material of the impermeable perspiring type, for instance Goretex® or Simpatex®.

A coupling of this type is particularly advantageous since it avoids the perspiring material to be joined to its carrier in a spot-like fashion, as it normally happens according to the known methods.

CLAIMS

- 1. A composite material, comprising a supporting material in the form of sheet or roll constituted by one of the following materials:
- 5 cellulosic material, e.g. Bontex® or Texon®;
 - or a mixture of leather regenerated materials or derivatives thereof, e.g. Salpa®;
 - or natural leather;
 - or cork or wood;
- 10 or a coagulated material;
 - or felt;
 - or a perspiring material such as Goretex® or Simpatex®,
- characterised in that said supporting material is provided with an embossed covering surface layer consisting of a film in polyethylene or Surlyn®.
 - 2. A composite material according to claim 1, characterized in that said supporting material is spread with a leather-like scent prior the embossing operation.
 - 3. A composite material according to claim 1 or 2, characterized in that it is provided with a series of perforations or microperforations.
- 4. Use of a composite material, comprising a supporting material in the form of sheet or roll constituted by one of the following materials:
 - cellulosic material, e.g. Bontex® or Texon®;
 - or a mixture of leather regenerated materials or derivatives thereof, e.g. Salpa®;
- 30 or natural leather;
 - or cork or wood;
 - or a coagulated material;

- or felt;
- or a perspiring material such as Goretex® or Simpatex®,

and an embossed covering surface layer consisting of a film in polyethylene or Surlyn® for producing footwear cork soles and/or heels and/or vamps and/or toes, and/or suitcase elements spectacle-cases and/or briefcases, and/or chairs or sofas elements or structures or furniture or furnishing elements.

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For Utility, PCT, and Design Applications

INSTRUCTIONS

Insert TTTLE of invention

If "b" checked, complete

If PCT Application

Integt Int. application number & filing date

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Check a or b

MERCHANT & GOULD

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD FOR PRODUCING A COMPOSITE MATERIAL AND	
MATERIAL OBTAINED BY MEANS OF SAID METHOD.	•
The specification of which	<u> </u>
a. X is attached hereto	
b. 🗆 was filed on	
as application serial no.	
and was amended on	(if applicable)
(in the case of PCT-filed application)	·
described and claimed in international no. PCT/IT97/00130 filed 10 June 199	7 (10.6.97
and as amended on (if any), which I have reviewed and for United States patent.	or which I solicit a
I hereby state that I have reviewed and understand the contents of the above identified specifical claims, as amended by any amendment referred to above.	tion, including the
I acknowledge the duty to disclose information which is material to the examination of this applica with Title 37, Code of Federal Regulations, § 1.56(a). (Reprinted on back side).	tion in accordance
I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign patent of inventor's certificate listed below and have also identified below any foreign application for pertificate having a filing date before that of the application on the basis of which priority is claim	patent or inventor's
a. 2 no such applications have been filed.	
b. \square such applications have been filed as follows:	

)

If "b" checked, complete

Prior applications Check a or b

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year
ITALY	VR96A000067	(19.07.96)	
ALL FOREIGN APP	LICATIONS, IF ANY, FILED BEFO	RE THE PRIORITY AP	PLICATION(S)

I hereby claim the benefit under Title 35. United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by § 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

entinuation-in-Part Applications,

1-00

Each inventor must sign & date

Note: No legalization or other witness required

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)	-
			-
			7

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trudemark Office connected herewith:

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/ attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould to the contrary.

Please direct all correspondence in this case to Merchant, Gould, Smith, Edell, Welter & Schmidt at the address indicated below (or if no address is specified, the first address);

- 3100 Norwest Center, Minneapolis, MN 55402-4131
 Telephone No. (612) 332-5300
- 1 1000 Norwest Center, St. Paul, MN 55101-2701
 Telephone No. (612) 298-1055
- 3 Suite 400, 11150 Santa Monica Boulevard, Los Angeles, CA 90025-3302 Telephone No. (310) 445-1140

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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For Additional Inventors:

Check box and attach sheet with same information, including date and signature.